IgE-Mediated Hypersensitivity to Lysine Clonixinate

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Lysine clonixinate belongs to the nicotinic acid family, a family of nonsteroidal anti-inflammatory drugs (NSAIDs), which are in turn a class of antiprostaglandin drugs. At therapeutic doses, it acts mainly by inhibiting cyclooxygenase 2 (COX-2), whereas at lower doses, it inhibits cyclooxygenase 1 (COX-1). It is indicated as an analgesic and anti-inflammatory drug in patients with acute or chronic pain and has proven effective in various algic syndromes such as renal colic, nerve compression, muscular pain, and odontalgia [1]. It is generally administered orally, although it is also effective and well tolerated intravenously for the treatment of severe migraine attacks [1-3]. Little is known about cross-reactivity between nicotinic acid family anti-inflammatory drugs (lysine clonixinate, morniflumate, isonixin, and niflumic acid) in acute allergic reactions. Most are used as a useful alternative in patients with NSAID hypersensitivity [4].

Like all medicines NSAIDs can cause adverse effects, although not all patients experience the few adverse effects of lysine clonixinate [9]. Common adverse effects (which may affect up to 1 in 10 people) include discomfort, stomachache, nausea, vomiting, diarrhea, and minimal intestinal bleeding. Rare adverse effects (which may affect up to 1 in 1000 people) include stomach inflammation and vomiting with blood. Very rare adverse effects (which may affect up to 1 in 10 000 people) include dizziness, hypersensitivity reactions (allergy) with rash and itchy skin, eczema, skin disorders, bronchospasm, breathing difficulties, insomnia, asphyxia, tremor, pharyngitis, fever, fatigue, lack of appetite, and blood disorders such as agranulocytosis, anemia, and thrombocytopenia. Interestingly, Kramer et al [10] reported that lysine clonixinate did not induce changes in platelet count or function when administered to healthy volunteers at the commonly used therapeutic doses.

We describe a patient with allergy to lysine clonixinate, which took the form of acute urticaria. The result of skin prick testing was positive, and the patient tolerated acetylsalicylic acid to NSAIDs. Oral challenge with lysine clonixinate was not performed. Skin prick testing with morniflumate, isonixin, niflumic acid, and acetylsalicylic acid dissolved in saline was negative. Oral challenge with acetylsalicylic acid 1 g was well tolerated. Oral challenges with morniflumate, isonixin, and niflumic acid were not performed, as these were not authorized by the patient.

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acid. Hypersensitivity to NSAIDs was ruled out. Cross-reactivity between drugs from the nicotinic group could not be demonstrated, as the patient refused to undergo testing. Skin prick testing with lysine clonixinate is a useful tool for the diagnosis of immediate acute urticaria induced by sensitization to this drug. To our knowledge, this is the first report of a positive skin prick test result with lysine clonixinate in the medical literature. Our findings strongly suggest an IgE-mediated mechanism.

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**Conflicts of Interest**

The authors declare that they have no conflicts of interest.

**References**


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